

Table Ex-01  
Soil Remediation Design Approval Summary  
Andrew Willgoos Turbine Laboratory  
East Hartford Connecticut

RTA ID	RTA Description	Sub-RTA	Approval for Alternative to Subpart N Characterization Sampling <sup>1</sup>	Approval for Alternative Subpart O Verification Sampling <sup>2</sup>	Rationale / Nature of Deviation from Subpart N Requirements	Maximum PCB Concentration Detected in Soil (mg/kg)	Maximum Detected PCB Concentration Remaining in Soil (mg/kg)	Nature of Deviation from Subpart O Requirements	Approval for the Use of a Clean Soil Cap that Does Not Meet the Permeability Requirements Referenced in §761.61(a)(7) and (8) <sup>3</sup>	Approval for Disposal of Soil & Concrete Containing <50 mg/kg PCBs at a non-hazardous solid waste landfill
Central Study Area										
CW-RTA02	Clarke Compressor Area	A*							X	
		B*							X	
		C*							X	
CW-RTA05	X-206 Test Stand	...				1830	2.35		X	
CW-RTA08	X-217 Test Stand	...				1.4826	1.004		X	
						7.56	0.811		X	
CW-RTA11	X-208 and X-209 Test Stands	X-208*				28.7	4.593			
		X-209*				22.79	6.24		X	
CW-RTA12	X-207 Test Stand	...				1330	3.95		X	
CW-RTA14	X-204 Test Stand	...				11.6	5.97		X	
CW-RTA20	X-203 Test Stand	...				69	0.4448		X	
CW-RTA21	X-205 Test Stand	...				11060	320.1		X	
CW-RTA22	X-211 Test Stand	...				13.58	1.275		X	
									X	
CW-RTA39	Shallow PCB Impacts West of Main Laboratory	A1	X		Area of consistently low concentration building materials impacts Sample Density: 1 sample/230 feet <sup>2</sup>	1.686	1.686			
		A2	X	X	Area of consistently low concentration building materials impacts Sample Density: 1 sample/435 feet <sup>2</sup>	1.453	1.453	Sample Density: 10' Grid		X
		B**		X		1.599	0.958	Variable Sample Density: average 1 sample/27 feet <sup>2</sup>		X
		C*				NA	NA			
		D*				NA	NA			
		E	X	X	Area of consistently low concentration building materials impacts Sample Density: 1 sample/167 feet <sup>2</sup>	3.733	3.733	Sample Density: 10' Grid		X
CW-RTA40	Shallow PCB Impacts South of Main Laboratory	F*				NA	NA			
		A**		X		2.039	0.750	Variable Sample Density: average 1 sample/191 feet <sup>2</sup>		
		B**		X		9.87	0.991	Variable Sample Density: average 1 sample/187 feet <sup>2</sup>		
		C**		X		13.85	0.645	Variable Sample Density: average 1 sample/295 feet <sup>2</sup>		
		D**		X		2.252	0.953	Sample Density: average 1 sample/36 feet <sup>2</sup>		
		E**		X		1.164	0.4696	Sample Density: average 1 sample/73 feet <sup>2</sup>		
		F*		X		23.8	1.78	Concrete and soil sampled on same Subpart O grid. Concrete samples collected where grid nodes fell on concrete surfaces. Sample density: 1/25.5 feet <sup>2</sup> of concrete surface & 1/17 linear feet of concrete sidewalk.	X	
		G*				NA	NA			
		H	X		Area of consistently low concentration building materials impacts Sample Density: 1 sample/120 feet <sup>2</sup>	2.415	2.415			X
		I*				NA	NA			
CW-RTA41	Shallow PCB Impacts East of Main Laboratory	A1*				2.42	0.0867			
		A2*				6.65	0.6628			
		A3*				2.069	0.2318			
		A4*				NA	ND			
		A5*				NA	0.0352			
		B1**		X		1.561	0.933	Sample Density: 1 sample/184 feet <sup>2</sup>		
		B2**		X		1.7779	0.7957	Sample Density: 1 sample/96 feet <sup>2</sup>		
		C1**		X		2.353	0.844	Sample Density: 1 sample/305 feet <sup>2</sup>		
		C2***	X	X	Area of consistently low concentration building materials impacts Sample Density: 1 sample/347 feet <sup>2</sup>	2.878	2.878	Prior sample Density: 1 sample/512 feet <sup>2</sup> Additional sampling 1/10 feet <sup>2</sup>		X
		D**		X		5.058	0.723	Variable Sample Density: average 1 sample/31 feet <sup>2</sup>		
		E**		X		1.145	0.693	Variable Sample Density: average 1 sample/91 feet <sup>2</sup>		
CW-RTA42	Other Building Materials in Willgoos Basements					See Table 4-02	See Table 4-02		X	

Attachment 3.

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NN-RTA01-03	Former North Storage Area West & North Swales	North Study Area				2169.9	49.84	1 bottom, 3 sidewall samples		
		A		X				One sidewall previously excavated.	X	X
		B*		X				Subpart O sample placement approximated due to shoring	X	
		C		X				Sample placement due to shoring & sample density: 10' Grid	X	
		D1***						Subpart O grid with NN-RTA0103D2		X
		D2***						Subpart O grid with NN-RTA0103D1	X	X
		E*		X				Subpart O sample placement approximated due to shoring	X	
		F1***		X				Sample Density: 10-foot grid with NN-RTA0103F2	X	X
		F2***		X				Sample Density: 10-foot grid with NN-RTA0103F1	X	X
		G1***		X				Sample Density: 15' grid that includes NN-RTA0103G5, K, L & M		X
		G2***		X				Sample Density 10' grid with NN-RTA103G2 & G3		X
		G3***		X				Sample Density 10' grid with NN-RTA103G3 & G4	X	X
		G4***		X				Sample Density 10' grid with NN-RTA103G2 & G4	X	X
		G5***		X				Sample Density: 15' grid that includes NN-RTA0103G1, K, L & M	X	X
		H*							X	
		I*		X					X	
		J1		X				Subpart O sample placement approximated due to shoring	X	
		J2***		X				Sample Density: 10' grid with NN-RTA0103J2, plus 2 sidewall samples		X
NN-RTA04-08	Former North Storage Area East Swale	K		X		1060	94.96	Two sidewalls previously excavated.		X
		L		X				Sample Density: 10' grid with NN-RTA0103L1, plus 2 sidewall samples	X	X
		M		X				Two sidewalls previously excavated.		X
		A1		X				Sample Density: 15' grid that includes NN-RTA0103G1, G5, L & M		X
		A2***		X				Sample Density: 15' grid that includes NN-RTA0301G1, G5, K, & M		X
		B		X				Sample Density: 15' grid that includes NN-RTA0103G1, G5, K & L		X
		C1***		X				Sample Density: 15' grid with NN-RTA0408A2, B, C, E, F1, K, L & M		X
		C2***		X				Sample Density: 15' grid with NN-RTA0408A1, B, C, E, F1, K, L & M		X
		D*		X				Sample Density: 15' grid with NN-RTA0408A, C, E, F1, K, L & M		X
		E***		X				Sample Density: 15' grid with NN-RTA0408A, B, C2, E, F1, K, L & M		X
		F1***		X				Sample Density: 15' grid with NN-RTA0408A, B, C1, E, F1, K, L & M		X
		F2***		X				Subpart O sample placement approximated due to shoring.	X	
		F3***		X				Sample Density: 15' grid with NN-RTA0408A, B, C, F1, K, L & M	X	X
		G*		X				Sample Density: 15' grid with NN-RTA0104A, B, C, E, J, K, L & M		X
		H*		X				Sample Density: 10' grid with NN-RTA0408F3 & J1	X	X
		I*		X				Sample Density: 10' grid with NN-RTA0408F2 & J1		X
		J1						Subpart O sample placement approximated due to shoring.	X	
		J2***		X				Subpart O sample placement approximated due to shoring.	X	
		K1***	X	X	One location omitted from Subpart N grid due to utilities. Sample density 1 boring/81 feet <sup>2</sup>			Subpart O sample placement approximated due to shoring.	X	
		K2		X					X	
		L1		X				Sample Density: 10' grid with NN-RTA0408F2 & F3	X	X
		L2		X				Sample Density: 15' grid with NN-RTA0408A, B, C, E, F1, K2, L & M	X	X
		L3***		X				Sample Density: 15' grid with NN-RTA0408A, B, C, E, F1, K1, L & M	X	X
		L4		X				Sample Density: 15' grid with NN-RTA0408A, B, D, E, F, J, K, L2-6 & M	X	X
		L5		X				Sample Density: 15' grid with NN-RTA0408A, B, D, E, F, J, K, L1, L3-6 & M		X
		L6		X				Sample Density: 15' grid with NN-RTA0408A, B, D, E, F, J, K, L1-2, L4-6 & M	X	X
		M		X				Sample Density: 15' grid with NN-RTA0408A, B, D, E, F, J, K, L1-3, L5-6 & M	X	X
NN-RTA10-12	Drum Storage Area and Interim Hazardous Waste Storage Area	A		X		3.75	3.75	Sample Density: 15' grid with NN-RTA0408A, B, D, E, F, J, K, L1-4, L6 & M	X	X
		B***		X		26.54	26.54	Sample Density: 15' grid with NN-RTA0408A, B, D, E, F, J, K, L1-5 & M		X
		C		X		44.7	44.7	Sample Density: 15' grid with NN-RTA0408A, B, C, E, F1, K & L	X	X
		D		X		17.278	17.278	Sample Density: 10' grid with NN-RTA10-12D, E & F	X	X
		E		X		19.71	19.71	Sample Density: 10' grid with NN-RTA10-12C, E & F	X	X
		F***		X		137.964	10.6	Sample Density: 10' grid with NN-RTA10-12C, D & F		X
NN-RTA13-18	Gas Compressor House	A		X		5.578	5.578	Verification sample placement approximated due to shoring: Susequent Sample Density: 10' grid with NN-RTA10-12C, D & E		X
		B***		X		30.69	26.93	Sample Density: 10' grid with NN-RTA10-12A	X	X
		C*		X		69.48	0.9013	Sample Density: 10' grid with remainder of NN-RTA13-18	X	X
		D		X		12.82	12.82	Sample Density: 10' grid with remainder of NN-RTA13-18		X
		E***		X		117.45	35.84	Concrete and soil sampled on same Subpart O grid. Concrete samples collected where grid nodes fell on concrete surfaces. Sample density: 1/34 feet <sup>2</sup> of concrete surface & 1/8 linear feet of concrete sidewalk.		X
		F		X		5.32	5.32	Sample Density: 10' grid with remainder of NN-RTA13-18	X	X
		G***		X		72.59	28.07	Sample Density: 10' grid with remainder of NN-RTA13-18	X	X
		H		X		9.99	9.99	Sample Density: 10' grid with remainder of NN-RTA13-18	X	X
		I	X	X	Irregular grid. Sample Density: 1 boring/90 feet <sup>2</sup>	1.06	1.06	Sample Density: 10' grid with remainder of NN-RTA13-18	X	X
		J	X	X	Irregular grid. Sample Density: 1 boring/80 feet <sup>2</sup>	7.87	7.87	Sample Density: 10' grid with remainder of NN-RTA13-18	X	X
		IRM Area*						Sample Density: 10' grid with remainder of NN-RTA13-18	X	X



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Northeast Study Area												
NEB-RTA01 & 11	Former Physical Chemistry Lab	A		X	10 to 20-foot spacing. Sample Density: 1 sample/139 feet <sup>2</sup>	45.03	45.03	Sample Density: 10' Grid with NEB-RTA01&11B, C & D		X		
		B	X	X				Sample Density: 10' Grid with NEB-RTA01&11A, C & D		X		
		C	X	X				Sample Density: 10' Grid with NEB-RTA01&11A, B & D	X	X		
		D	X	X				Sample Density: 10' Grid with NEB-RTA01&11A, B & C	X	X		
		E		X	10 to 20-foot spacing. Sample Density: 1 boring/196 feet <sup>2</sup>	35.46	35.46	Sample Density: 10' Grid with NEB-RTA01&11I		X		
		F		X				Sample Density: 10' Grid with NEB-RTA01&11H		X		
		G		X								
		H		X								
		I	X	X				Sample Density: 10' Grid with NEB-RTA01&11F		X		
		J		X				Sample Density: 10' Grid with NEB-RTA01&11E	X	X		
NEB-RTA02	West of Fuel Laboratory	A		X		3650	20.94	Sample Density: 10' Grid with remainder of NEB-RTA02		X		
		B***		X				Sample Density: 10' Grid with remainder of NEB-RTA02		X		
		C***		X				Sample Density: 10' Grid with remainder of NEB-RTA02		X		
		D***		X				Sample Density: 10' Grid with remainder of NEB-RTA02		X		
NEB-RTA03	Substation 58	IRM Area*				39.5	1.98	Concrete and soil sampled on same Subpart O grid. Concrete samples collected where grid nodes fell on concrete surfaces. Sample density: 1/17.4 feet <sup>2</sup> of concrete surface & 1/7.5 linear feet of concrete sidewalk.	X			
		A*		X								
		B*										
NEB-RTA04	Clarke Compressor Air Lines	C*				7.14	7.14		X			
Northwest Study Area												
NWA-RTA 1, 12-15 & 17	Former Equipment Storage Area	A		X	Several locations adjusted for utilities. Sample Density: 1 boring/105 feet <sup>2</sup>	1.33	1.33	Sample Density: 20' Grid with NWA-RTA12-17C, D, E, F & H	X	X		
		B	X	X				Sample Density: 20' Grid with NWA-RTA12-17B, D, E, F & H		X		
		C***		X				Sample Density: 20' Grid with NWA-RTA12-17B, C, E, F & H		X		
		D	X	X				Sample Density: 20' Grid with NWA-RTA12-17B, C, D, F & H		X		
		E	X	X	One location missing from Subpart N grid, Sample Density: 1 boring/131 feet <sup>2</sup>	1040	26.6	Sample Density: 20' Grid with NWA-RTA12-17B, C, D, E & H	X	X		
		F		X				Sample Density: 20' Grid with NWA-RTA12-17I & J		X		
		G	X	X				Sample Density: 20' Grid with NWA-RTA12-17B, C, D, E & F	X	X		
		H***		X				Sample Density: 20' Grid with NWA-RTA12-17B, C, D, E & F	X	X		
		I	X	X				Sample Density: 20' Grid with NWA-RTA12-17G & J	X	X		
		J		X				Sample Density: 20' Grid with NWA-RTA12-17G & I		X		
IRM Area*			Sample locations varied from grid. Sample Density: 1 boring/160 feet <sup>2</sup>									
NWA-RTA02	X234 & X235 Test Stand Equipment Room	--				1.26	1.26		X			
NWA-RTA03	X232 & X233 Control Room	--				12.3	12.3			X		
NWA-RTA04	Lateral Exhaust Discharge Area	--	X	X	1 sample missing from 10-foot grid, Sample Density: 1 boring/155feet <sup>2</sup>	1.67	1.67	Sample Density: 10' Grid	X	X		
NWA-RTA05 & 06	X230 & X231 Test Stand Area	A***		X		32.2	26	Sample Density: 10' Grid with NWA-RTA0506B, C, G, H, I & J		X		
		B		X				Sample Density: 10' Grid with NWA-RTA0506A, C, G, H, I & J		X		
		C		X				Sample Density: 10' Grid with NWA-RTA0506A, B, G, H, I & J		X		
		D								X		
		E			Delineated with 3 samples; Sample Density: 1 boring/113 feet <sup>2</sup>					X		
		F	X							X		
		G		X	Steel plates limited sampling access, Sample Density 1 boring/94 feet <sup>2</sup>			Sample Density: 10' Grid with NWA-RTA0506A, B, C, H, I & J		X		
		H***	X	X				Sample Density: 10' Grid with NWA-RTA0506A, B, C, G, I & J	X	X		
		I	X	X				Sample Density: 10' Grid with NWA-RTA0506A, B, C, G, H & J		X		
		J***		X				Sample Density: 10' Grid with NWA-RTA0506A, B, C, G, H & I		X		
IRM area		X										
NWB-RTA02 & 07	Former Welding Shop and Control Room (D.E. Laboratory)	A	X	X	Consistently low concentration building materials impacts; Sample Density: 1 boring/156 feet <sup>2</sup>	23.026	23.026	Sample Density: 10' Grid with NWB-RTA0207B, C, D, E, F, G, H & I		X		
		B	X	X				Sample Density: 10' Grid with NWB-RTA0207A, C, D, E, F, G, H & I		X		
		C	X	X				Sample Density: 10' Grid with NWB-RTA0207A, B, D, E, F, G, H & I	X	X		
		D	X	X				Sample Density: 10' Grid with NWB-RTA0207A, B, C, E, F, G, H & I		X		
		E	X	X	Consistently low concentration building materials impacts; Sample Density: 1 boring/170 feet <sup>2</sup>					X		
		F	X	X				Sample Density: 10' Grid with NWB-RTA0207A, B, C, D, F, G, H & I		X		
		G	X	X	Consistently low concentration building materials impacts; Sample Density: 1 boring/155 feet <sup>2</sup>			Sample Density: 10' Grid with NWB-RTA0207A, B, C, D, E, G, H & I		X		
		H	X	X				Sample Density: 10' Grid with NWB-RTA0207A, B, C, D, E, F, H & I		X		
		I						Sample Density: 10' Grid with NWB-RTA0207A, B, C, D, E, F, G & I		X		
		J	X									
NWB-RTA04	X-202 Inlet House	K	X		Delineated with 3 samples; Sample Density: 1 boring/130 feet <sup>2</sup>	67.1	67.1		X			
		L	X									
		M	X									
		N	X									
		A	X	X	Near-source biased boring placement; Sample Density: 1 boring/91 feet <sup>2</sup>	1.967	1.967	Sample Density: 10' Grid with NWB-RTA0207A, B, C, D, E, F, G & H		X		
		B	X	X						X		
										X		
NWB-RTA04	X-202 Inlet House				Limited extent potential release area. Sample Density: 1 boring/35feet <sup>2</sup>	NA	NA					
					Sample Density: 1 boring/270 feet <sup>2</sup>	4.691	4.691	Sample Density: 10' Grid with NWB-RTA04B		X		
					Irregular spacing; no sample to north. Sample Density: 1 boring/50 feet <sup>2</sup>	29.91	29.91	Sample Density: 10' Grid with NWB-RTA04A		X		

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Northwest Study Area (cont.)												
NWB-RTA05, 06, 08 & 09	40,000 gallon Bunker C Fuel AST	A		X		12.35	12.35	Sample Density: 10' Grid with NWB-RTA05B, C & D		X		
		B		X				Sample Density: 10' Grid with NWB-RTA05A, C & D		X		
		C		X				Sample Density: 10' Grid with NWB-RTA05A, B & D		X		
		D		X				Sample Density: 10' Grid with NWB-RTA05A, B & C		X		
		E				1.8	1.8			X		
		F		X				2 Bottom, 3 Sidewall Samples		X		
		G1		X								
		G2		X								
		H		X		68.4	68.4			X		
		I1		X				12.75	12.75			
		I2		X						1 Bottom, 2 Sidewall Samples		X
		J		X							Sample Density: 10' Grid with NWB-RTA08-09I2, J, K, L & M3	X
		K		X		Sample Density: 10' Grid with NWB-RTA08-09I1, J, K, L & M3	X				X	
		L		X		32.1	32.1	Sample Density: 10' Grid with NWB-RTA08-09I, K, L & M3			X	
		M1		X				Sample Density: 10' Grid with NWB-RTA08-09I, J, L & M3	X	X		
M2		X		Sample Density: 10' Grid with NWB-RTA08-09I, J, K & M3	X			X				
M3		X			X							
N		X			0.98	0.98	Sample Density: 10' Grid with NWB-RTA08-09I, J, K, & L	X	X			
						110	110	Pre-verification sampling on Subpart O density: Shoring	X			
South Study Area												
SS-RTA14, 15 & 19	South Storage Area and Debris Pile	A***	X	X	Sample Density: 1 boring/120 feet <sup>2</sup>	83.74	14.475	Sample Density: 15' Grid with SS-RTA1419B, C, D, E, F & P	X	X		
		B	X	X	Sample Density: 1 boring/440 feet <sup>2</sup>					Sample Density: 15' Grid with SS-RTA1419A, C, D, E, F & P		X
		C	X	X	Sample Density: 1 boring/174 feet <sup>2</sup>					Sample Density: 15' Grid with SS-RTA1419A, B, D, E, F & P		X
		D***		X						Sample Density: 15' Grid with SS-RTA1419A, B, C, E, F & P	X	X
		E	X	X	Sample Density: 1 boring/171 feet <sup>2</sup>			Sample Density: 15' Grid with SS-RTA1419A, B, C, D, F & P	X	X		
		F		X				Sample placement due to shoring				
		G	X	X	Sample Density: 1 boring/150 feet <sup>2</sup>	19.41	19.41	Sample Density: 15' Grid with SS-RTA1419A, B, C, D, E & P	X	X		
		H	X	X	Sample Density: 1 boring/145 feet <sup>2</sup>					Sample placement due to shoring		X
		I	X	X	Sample Density: 1 boring/145 feet <sup>2</sup>					Sample Density: 10' Grid with SS-RTA1419H & I		
		J	X	X	Sample Density: 1 boring/145 feet <sup>2</sup>					Sample Density: 10' Grid with SS-RTA1419G & I	X	X
		K	X	X	Sample Density: 1 boring/300 feet <sup>2</sup>	10.26	10.26	Sample Density: 10' Grid with SS-RTA1419G & H	X	X		
		L***	X	X	Sample Density: 1 boring/265 feet <sup>2</sup>					Sample Density: 15' Grid with SS-RTA1419K	X	X
		M***		X	Sample Density: 1 boring/78 feet <sup>2</sup>					Sample Density: 15' Grid with SS-RTA1419J	X	X
		N***		X						Sample Density: 10' Grid with SS-RTA1419M, N & O	X	X
		O	X	X		228.1	21.8	Sample Density: 10' Grid with SS-RTA1419L, N & O	X	X		
P	X	X	Sample Density: 1 boring/110 feet <sup>2</sup>					Sample Density: 10' Grid with SS-RTA1419L, M, & O	X	X		
A*			Sample Density: 1 boring/200 feet <sup>2</sup>					Sample Density: 10' Grid with SS-RTA1419I, M, & N		X		
B*				See A-F above.				Sample Density: 15' Grid with SS-RTA1419A, B, C, D, E & F		X		
SS-RTA20	Fire Hydrant Buildings					3.929	0.49					
						10.2	0.819					
South West Study Area												
SW-RTA07	North Fuel Dock Pipeline	A	X	X	20-foot spacing along dock and 10-foot lateral delineation; Sample Density: 1 boring/186 feet <sup>2</sup>	9.35	9.35	Sample Density: 10' Grid				
SW-RTA07B	South Fuel Dock Pipeline	A	X	X	20-foot spacing along dock and 10-foot lateral delineation; Sample Density: 1 boring/234 feet <sup>2</sup> Subpart N delineation around PCB detections >10 mg/kg	49	49	Sample Density: 10' Grid with SS-RTA07B&C		X		
		B	X	X				Sample Density: 10' Grid with SS-RTA07A&B		X		
C		X	X	Sample Density: 10' Grid with SS-RTA07A&C					X			
West Study Area												
WW-RTA06	Main River Pump House	A		X		1.528	1.528	Sample Density: 10' Grid				
WW-RTA07	Surficial Impacts - West Study Area	A*				7.92	0.888			X		
		B**		X		2.864	0.591	Variable Sampling Density: 1 sample/162 feet <sup>2</sup>				
C		X	X	Sample Density: 1 boring/110 feet <sup>2</sup>	22.51	22.51	Sample Density: 10' Grid					
Notes:												
<sup>1</sup> Details of characterization sampling are presented in Section 2.2.4 of the RTR.												
<sup>2</sup> Details of verification sampling are presented in Section 2.2.5 of the RTR.												
<sup>3</sup> Details of permeability testing are presented in Section 2.2.6 of the RTR.												

Notes:

<sup>1</sup> Details of characterization sampling are presented in Section 3.3 and figures referenced therein. Approvals requested only where it is proposed to dispose of material as <50 mg/kg PCBs at a non-hazardous solid waste landfill.

<sup>2</sup> Alternate sampling density and, where shoring is required, alternative sampling methodologies.

<sup>3</sup> Approval for variance from permeability requirements and from timing of deed notice for TSCA cap areas, where PCB concentrations comply with the Connecticut Pollutant Mobility Criterion.

\* Remediation complete and verified with Subpart O sampling.

\*\* Remediation complete, and verified with sampling density other than Subpart O sampling.

\*\*\* Remediation partially complete.

RTA = Remediation Target Area

NA = Not applicable. Concrete/asphalt remediation area being addressed per §761.61(b).